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FutureTech & MUE

First International Conference, VOTE-ID 2007, Bochum, Germany, October 4-5, 2007, Revised Selected Papers

Architecting Critical Systems

ECEG

ECEG2007-Proceedings of the 7th European Conference on e-Government

Security in the Information Society

First International Symposium, Prague, Czech Republic, June 23-25, 2010

4th International Conference, Vote-ID 2013, Guildford, UK, July 17-19, 2013, Proceedings

E-voting Handbook

Introducing Electronic Voting

Third International Conference, VoteID 2011, Tallinn, Estonia, September 28-20, 2011, Revised Selected Papers

Protecting Elections in an Electronic World

CSA-CUTE2016

Information Security Education for Cyber Resilience

Hacking Elections Is Easy!: Preserving Democracy in the Digital Age

TYRESE YADIRA

Electronic Elections Springer Nature

This book constitutes the refereed proceedings of the 14th IFIP WG 11.8 World Conference on Information Security Education, WISE 14, held virtually in June 2021. The 8 papers presented together with a special chapter showcasing the history of WISE and two workshop papers were carefully reviewed and selected from 19 submissions. The papers are organized in the following topical sections: a roadmap for building resilience; innovation in curricula; teaching methods and tools; and end-user security.

The Future of Internet Voting Academic Conferences Limited

Organizations are increasingly relying on electronic information to conduct business, which has caused the amount of personal information to grow exponentially. Threats, Countermeasures, and Advances in Applied Information Security addresses the fact that managing information security program while effectively managing risks has never been so critical. This book contains 24 chapters on the most relevant and important issues and advances in applied information security management. The chapters are authored by leading researchers and practitioners in the field of information security from across the globe. The chapters represent emerging threats and countermeasures for effective management of information security at organizations.

Threats, Countermeasures, and Advances in Applied Information Security Springer

This volume constitutes the proceedings of the Second International Conference on E-Voting and Identity, VOTE-ID 2009, held in Luxembourg in September 2009. The 11 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 24 submissions. The selected papers cover a wide range of aspects of voting: proposals for high assurance voting systems, evaluation of existing systems, assessment of public response to electronic voting, and legal aspects.

Legal, Operational and Technical Standards for E-voting IGI Global

Of interest to both researchers and professionals, this book constitutes the thoroughly refereed post-proceedings of the first International Conference on E-Voting and Identity, VOTE-ID 2007, held in Germany in 2007. The 16 revised full papers here were reviewed and selected from numerous submissions. The papers are organized in sections that include, among many others, remote electronic voting, evaluation of electronic voting systems, and electronic voting in different countries.

Knowledge and Technologies in Innovative Information Systems Springer

The United States election process has been at risk since the widespread adoption of electronic voting systems in 2002-2006. Even though researchers have spent the past decade demonstrating that Direct Recording Electronic (DRE) and optical scanning systems from every manufacturer are vulnerable along numerous attack vectors, our Nation is still plagued with a lack of transparency on

the part of electronic voting system manufacturers and poorly trained election officials and staff.

Despite the recurring discussion on electronic voting vulnerabilities that occurs every four years, only limited attention is given to the systemic problem undermining American democracy. It is time for a complete overhaul in the electoral process' cyber, technical and physical security. In this publication, entitled "Hacking Elections is Easy! Preserving Democracy in the Digital Age," the Institute for Critical Infrastructure Technology, America's leading cybersecurity Think Tank, provides a comprehensive two-part analysis of this threat to our democracy: Part 1: Tactics, Techniques, and Procedures - The shocking ease of hacking virtually any voting machine's "black box" technology - The cyber, technical and physical attack methods that could be enlisted by Nation States, Hacktivists, and black hat hackers - Social Engineering attack vectors Part 2: PSST! Wanna Buy a National Voter Database? Hacking E-Voting Systems Was Just the Beginning - The risk of local and state-level election official and staff exploitation - Documented incidents of data breaches and attacks involving electronic voting systems - E-voting testing requirements by region - Vulnerabilities in electronic voting systems currently / previously in use in the united states (organized by manufacturer)

A Case Study of E-voting in the State of Missouri Council of Europe

The Help America Vote Act of 2002 (HAVA) was a response to the controversial presidential election of 2000. In accordance with HAVA requirements for federal elections, states were mandated to replace punch card voting systems and mechanical lever voting machines with more up-to-date systems that use current technology. As replacements, states selected optical scan (OS) and direct record electronic (DRE) voting systems. Computer scientists questioned the security of OS and DRE voting systems, and politicians questioned their accuracy. Thus, the goals of this research were to analyze the accuracy of election outcomes generated by electronic voting (e-voting) systems and to document whether e-voting machines were trustworthy (i.e., accurately recorded the voters' intent) and secure (i.e., votes were not altered). To achieve these goals, the author developed an embedded case study and incorporated ethnographic and quantitative techniques. The author observed election officials in two Missouri jurisdictions perform pre-election, Election Day, and post-election tasks. Specifically, the author observed election officials in Cape Girardeau County perform pre-election tasks, such as logic and accuracy (L&A) testing. In the state of Missouri, pre-election L&A testing involved loading the ballot and was considered finished when the e-voting system was ready for voters. The author identified pre-election adversarial strategies and then used a six-step risk analysis process to identify the most important risks. After following the steps, the author identified 11 e-voting components as high-level security risks. Additionally, the author observed election officials in St. Louis County, Missouri conduct the 2010 midterm election and post-election activities, which included the manual tabulation of ballots. Election Day culminated with unofficial outcomes generated from the e-voting systems, while the post-election activities yielded official outcomes. To analyze the accuracy of e-voting systems, the author computed confidence intervals for the differences between unofficial and official 2010 midterm election outcomes from statewide

ances in St. Louis County. Based on these confidence intervals, the author concluded that the e-voting systems used in the state of Missouri were between 99.768% and 99.774% accurate.

E-Voting Case Law Springer Science & Business Media

The continuous and intensive development of computer science results in the fast progress of computer networks. Computer networks, as well as the entire computer science field, are subject to regular changes caused by the general development of technology, and also the influence of new computer science technology. This progress refers to the methods as well as the tools of designing and modeling computer networks. Particularly, the range of using computer networks permanently is extended thanks to the results of new research and new applications, which were not even taken into consideration in the past. These new applications stimulate the development of scientific research, because the wider use of system solutions based on computer networks results in both theoretical and practical problems. This book is the evidence of the above considerations, with particular chapters referring to the broad spectrum of issues and problems. This book is the result of the research of scientists from many remarkable scientific research centers. It was created as a collection of articles presented during the 17th edition of the International Conference 'Computer Networks', which took place in Ustroń (Poland) during June 15–19, 2010. This conference, organized continuously since 1994 by the Institute of Informatics of Silesian University of Technology, is the oldest event of this kind organized in Poland, having an international status for three years. This year's edition like last year, took place under the auspices of IEEE Poland Section.

Implicit and Explicit Semantics Integration in Proof-Based Developments of Discrete Systems Springer

Electronic voting is often seen as a tool for making the electoral process more efficient and for increasing trust in its management. Properly implemented, e-voting solutions can increase the security of the ballot, speed up the processing of results and make voting easier. However, the challenges are considerable. If not carefully planned and designed, e-voting can undermine the confidence in the whole electoral process. Technology upgrades in elections are always challenging projects that require careful deliberation and planning. Introducing e-voting is probably the most difficult upgrade as this technology touches the core of the entire electoral process—the casting and counting of the votes. E-voting greatly reduces direct human control and influence in this process. This provides an opportunity for solving some old electoral problems, but also introduces a whole range of new concerns. Consequently, e-voting usually triggers more criticism and opposition and is more disputed than any other information technology application in elections. This Policy Paper outlines contextual factors that can influence the success of e-voting solutions and highlights the importance of considering these factors before choosing to introduce new voting technologies.

Point, Click, and Vote Routledge

This research incorporates the background of electronic voting systems, the purpose for design requirements, and goals needed for trustworthy electronic voting systems. Also included are the potential electronic voting systems designed by others based on goals established by the U.S. Federal Government and voting system experts. We also present the design of a potential trustworthy voting system.

Design, Development, and Use of Secure Electronic Voting Systems Springer

Real-World Electronic Voting: Design, Analysis and Deployment captures all major developments in electronic voting since 2003 in a real-world setting. It covers three broad categories: e-voting protocols, attacks reported on e-voting and new developments on the use of e-voting. This book explores recent innovations in both poll-site and remote voting systems and their application throughout the world. The requirements of elections are analysed, the available tools and technologies are described, and a variety of modern systems are presented in detail together with discussions of deployments. This is an invaluable resource for election professionals, researchers and policy makers alike. Key Features: Reviews both technical and social aspects of e-voting Covers e-voting protocols, attacks reported on e-voting and new developments on the use of e-voting Designed for government election practitioners and policy makers who want to understand the threats and opportunities in e-voting and assess its suitability for future elections

E-Voting and Identity CRC Press

Recent advances in technology and new software applications are steadily transforming human civilization into what is called the Information Society. This is manifested by the new terminology appearing in our daily activities. E-Business, E-Government, E-Learning, E-Contracting, and E-Voting are just a few of the ever-growing list of new terms that are shaping the Information Society. Nonetheless, as "Information" gains more prominence in our society, the task of securing it against all forms of threats becomes a vital and crucial undertaking. Addressing the various security issues confronting our new Information Society, this volume is divided into 13 parts covering the following topics: Information Security Management; Standards of Information Security; Threats and Attacks to Information; Education and Curriculum for Information Security; Social and Ethical Aspects of Information Security; Information Security Services; Multilateral Security; Applications of Information Security; Infrastructure for Information Security Advanced Topics in Security; Legislation for Information Security; Modeling and Analysis for Information Security; Tools for Information Security. Security in the Information Society: Visions and Perspectives comprises the proceedings of the 17th International Conference on Information Security (SEC2002), which was sponsored by the International Federation for Information Processing (IFIP), and jointly organized by IFIP Technical Committee 11 and the Department of Electronics and Electrical Communications of Cairo University. The conference was held in May 2002 in Cairo, Egypt.

Preserving Democracy in the Digital Age Conseil de l'Europe

During the 2016 presidential election, America's election infrastructure was targeted by actors sponsored by the Russian government. *Securing the Vote: Protecting American Democracy* examines the challenges arising out of the 2016 federal election, assesses current technology and standards for voting, and recommends steps that the federal government, state and local governments, election administrators, and vendors of voting technology should take to improve the security of election infrastructure. In doing so, the report provides a vision of voting that is more secure, accessible, reliable, and verifiable.

E-Voting and Identity Brookings Institution Press

Electronic voting has a young and attractive history, both in the design of basic cryptographic methods and protocols and in the application by communities who are in the vanguard of technologies. The crucial aspect of security for electronic voting systems is subject to research by

computer scientists as well as by legal, social and political scientists. The essential question is how to provide a trustworthy base for secure electronic voting, and hence how to prevent accidental or malicious abuse of electronic voting in elections. To address this problem, Volkamer structured her work into four parts: "Fundamentals" provides an introduction to the relevant issues of electronic voting. "Requirements" contributes a standardized, consistent, and exhaustive list of requirements for e-voting systems. "Evaluation" presents the proposal and discussion of a standardized evaluation methodology and certification procedure called a core Protection Profile. Finally, "Application" describes the evaluation of two available remote electronic voting systems according to the core Protection Profile. The results presented are based on theoretical considerations as well as on practical experience. In accordance with the German Society of Computer Scientists, Volkamer succeeded in specifying a "Protection Profile for a Basic Set of Security Requirements for Online Voting Products," which has been certified by the German Federal Office for Security in Information Technology. Her book is of interest not only to developers of security-critical systems, but also to lawyers, security officers, and politicians involved in the introduction or certification of electronic voting systems.

Anonymous Security Systems and Applications: Requirements and Solutions Princeton University Press

This book constitutes the thoroughly refereed conference proceedings of the 4th International Conference on E-Voting and Identity, Vote ID 2013, held in Guildford, UK, during July 17-19, 2013. The 12 revised full papers presented were carefully selected from 26 submissions. The papers include a range of works on end-to-end verifiable election systems, verifiably correct complex tallying algorithms, human perceptions of verifiability, formal models of verifiability and, of course, attacks on systems formerly advertised as verifiable.

Asking the Right Questions About Electronic Voting Springer Science & Business Media

These proceedings focus on various aspects of computer science and its applications, thus providing an opportunity for academic and industry professionals to discuss the latest issues and progress in this and related areas. The book includes theory and applications alike.

Analyzing E-voting Outcomes Createspace Independent Publishing Platform

Since the 2000 presidential election, the United States has been embroiled in debates about electronic voting. Critics say the new technologies invite tampering and fraud. Advocates say they enhance the accuracy of vote counts and make casting ballots easier--and ultimately foster greater political participation. *Electronic Elections* cuts through the media spin to assess the advantages and risks associated with different ways of casting ballots--and shows how e-voting can be the future of American democracy. Elections by nature are fraught with risk. Michael Alvarez and Thad Hall fully examine the range of past methods and the new technologies that have been created to try to minimize risk and accurately reflect the will of voters. Drawing upon a wealth of new data on how different kinds of electronic voting machines have performed in recent elections nationwide, they evaluate the security issues that have been the subject of so much media attention, and examine the impacts the new computer-based solutions is having on voter participation. Alvarez and Hall explain why the benefits of e-voting can outweigh the challenges, and they argue that media coverage of the new technologies has emphasized their problems while virtually ignoring their

enormous potential for empowering more citizens to vote. The authors also offer ways to improve voting technologies and to develop more effective means of implementing and evaluating these systems. *Electronic Elections* makes a case for how e-voting can work in the United States, showing why making it work right is essential to the future vibrancy of the democratic process.

Essential Considerations Springer

This book constitutes the proceedings of the 7th Mediterranean Conference on Information Systems, MCIS 2012, held in Guimaraes, Portugal, in September 2012. MCIS 2012 comprised theories, research, and practices based on knowledge management and innovations in organizations, society, and businesses. The 18 full papers presented in this volume were carefully reviewed and selected from 89 submissions. They are organized in topical sections on: emerging and innovative information systems, enterprise systems and enterprise engineering, Web 2.0 enabled business models, information quality management and data accuracy in innovative IS, and ICT applications in healthcare.

The Machinery of Democracy Design, Development, and Use of Secure Electronic Voting Systems In modern electoral processes, Information and Communication Technologies play a crucial role, whether used in voter registration, ballot casting, or processing of results. Securing these systems is a necessary step in ensuring the fairness of the democratic process. *Design, Development, and Use of Secure Electronic Voting Systems* analyzes current research on the integration of modern technologies with traditional democratic systems, providing a framework for designing and deploying electronic voting systems in any context or society. Stakeholders, researchers, architects, designers, and scholars interested in the use of electronic systems in government processes will use this book to gain a broader understanding of some of the latest advances in this emerging field.

Introducing Biometric Technology in Elections Springer

This book presents the combined proceedings of the 8th International Conference on Computer Science and its Applications (CSA-16) and the 11st International Conference on Ubiquitous Information Technologies and Applications (CUTE 2016), both held in Bangkok, Thailand, December 19 - 21, 2016. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state-of-the-art in the development of computational methods, involving theory, algorithm, numerical simulation, error and uncertainty analysis and novel application of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing.

Proceedings of the Third International Conference on Trends in Information, Telecommunication and Computing Springer

Third International Conference on Recent Trends in Information, Telecommunication and Computing - ITC 2012. ITC 2012 will be held during Aug 03-04, 2012, Kochi, India. ITC 2012, is to bring together innovative academics and industrial experts in the field of Computer Science, Information Technology, Computational Engineering, and Communication to a common forum. The primary goal of the conference is to promote research and developmental activities in Computer Science, Information Technology, Computational Engineering, and Communication. Another goal is to promote scientific information interchange between researchers, developers, engineers, students,

and practitioners.